Author Index of Volume 449

Adolphi, N.L., 9
Anderson, T.J., 77
Arnold, J., 147
Atwood, D.A., 61, C1
Atwood, J.L., 45

Barash, E.H., 191
Barron, A.R., 95
Beachley, Jr., O.T., 69
Bell, W., 141
Berry, A.D., 119
Bonasia, Ph.J., 147
Brandt, L., 159
Brough, L.F., 125
Buhro, W.E., 9

Caulton, K.G., 191
Cen, W., 19
Cheng, L.-T., 27
Chi, K.M., 181
Cole-Hamilton, D.J., 141
Conradi, M.S., 9
Corbitt, T.S., 181
Corriu, R., 111
Cowley, A.H., 61, C1

Deacon, G.B., 131
Dickson, R.S., 131
Duan, Z., 173
Duesler, E.N., 181

Elms, F.M., 45

Faith, M., 131
Fallon, G.D., 131
Fehlner, T.P., 19
Ferry, J., 141
Fourcade, R., 111
Fujisaka, T., 105

Gardiner, M.G., 45
Gasser, C., 191
Gerbier, Ph., 111
Girolami, G.S., 203
Goedken, V.L., 125
Goel, S.C., 9
Guérin, C., 111

Hails, J.E., 141
Hampden-Smith, M.J., 173, 181
Harris, P.R., 61
Heazle, K.D., 131
Hendershot, D.G., 119
Henner, B., 111
Hepp, A.F., 95
Higa, K.T., 53
Huang, Z.S., 77
Hursthouse, M.B., 1

Janik, J.F., 39
Jeffries, P.M., 203
Jia, G., 211
Jones, A.C., 1
Jones, R.A., 61, C1
Jones III, L.J., 85

Kaesz, H.D., 159
Kodas, T.T., 181
Koschmieder, S.U., 61
Koutsantonis, G.A., 45
Kwon, Y.-U., 167

Ladna, B., 19
Lee, K.E., 53
Leech, P.W., 131

MacInnes, A.N., 95
Maloney, J.D., 69
Marder, T.B., 27
Mardones, M.A., C1
Martin, J.D., 191
Maury, F., 159
McPhail, A.T., 85
Miller, A.E., 19
Motevalli, M., 1
Murray, C., 105

Nunn, C.M., 61

O'Brien, P., 1

Pain, G.N., 131
Paine, R.T., 39
Park, C., 77
Power, M.B., 95
Puddephatt, R.J., 211

Raston, C.L., 45
Rees, Jr., W.S., 125
Robinson, K.D., 45
Rogers, R.D., 69
Rowe, R.S., 131

Samuels, J.A., 191
Self, M.F., 85
Steigerwald, M.L., 167
Stevenson, J., 141
Streib, W.E., 191
Stuczynski, S.M., 167
Sun, Y., 27
Sylwester, A.P., 173

Taylor, N.J., 27

Vaartstra, B.A., 191
Vittal, J.J., 211

Walsh, J.R., 1
Wells, R.L., 85
West, B.O., 131
West, R., 105
Williams, I.D., 27
Wilson, S.R., 203

Yuan, Z., 27
Yue, D., 19

Subject Index of Volume 449

Aluminium

The systems $LiAlH_4/NH_4X$ and N_2H_5Cl as precursor sources for AlN (J.F. Janik and R.T. Paine), 39

Tertiary phosphine adducts of alane and gallane (F.M. Elms, M.G. Gardiner, G.A. Koutsantonis, C.L. Raston, J.L. Atwood and K.D. Robinson), 45

Synthesis and characterization of bridged dimeric and trimeric Group 13/15 complexes containing primary phosphido $[(^tBu)PH]^-$ and arsenido $[(^tBu)AsH]^-$ units (D.A. Atwood, A.H. Cowley, P.R. Harris, R.A. Jones, S.U. Koschmieder and C.M. Nunn), 61

Antimony

Primary and secondary trimethylsilylmethylstibines. Synthesis, characterization and chemical vapor deposition properties (D.G. Hendershot and A.D. Berry), 119

Antimony sources for MOCVD. The use of Et_4Sb_2 as a p-type dopant for $Hg_{1-x}Cd_xTe$ and crystal structure of the adduct $[Et_4Sb_2 \cdot 2CdI_2]_n$ (R.S. Dickson, K.D. Heazle, G.N. Pain, G.B. Deacon, B.O. West, G.D. Fallon, R.S. Rowe, P.W. Leech and M. Faith), 131

Arsenic

Synthesis and characterization of bridged dimeric and trimeric Group 13/15 complexes containing primary phosphido $[(^tBu)PH]^-$ and arsenido $[(^tBu)AsH]^-$ units (D.A. Atwood, A.H. Cowley, P.R. Harris, R.A. Jones, S.U. Koschmieder and C.M. Nunn), 61

Synthesis, isolation, and characterization of dimeric compounds containing two different exocyclic ligands on the Group 13 center. X-Ray crystal structures of $[R(Me_3SiCH_2)InE(SiMe_3)_2]_2$ (R = Ph, E = As; R = Me, E = As, P; R = Cl, E = P) (R.L. Wells, A.T. McPhail, L.J. Jones III and M.F. Self), 85

Aspects of the chemistry of vinylarsenic compounds. The preparation of divinylarsinic acid, tetravinyldiarsine oxide, and tetravinyldiarsine, and the X-ray crystal structure of the helical divinylarsinic acid (V.L. Goedken, L.F. Brough and W.S. Rees, Jr.), 125

Boron

Synthesis and second-order nonlinear optical properties of three coordinate organoboranes with diphenylphosphino and ferrocenyl groups as electron donors: crystal and molecular structures of (*E*)-D–CH=CH–$B(mes)_2$ and D–C≡C–$B(mes)_2$ [D = $P(C_6H_5)_2$, $(\eta\text{-}C_5H_5)Fe(\eta\text{-}C_5H_4)$; mes = 2,4,6-$(CH_3)_3C_6H_2$] (Z. Yuan, N.J. Taylor, Y. Sun, T.B. Marder, I.D. Williams and L.-T. Cheng), 27

Cadmium

Structural studies of some Group 12 metal alkyl adducts: the X-ray crystal structures of $Me_2Zn[Me_2N(CH_2)_2NMe_2]$, $Me_2Cd[Me_2N(CH_2)_2NMe_2]$, $(Me_3CCH_2)_2Zn[Me_2N(CH_2)_2NMe_2]$ and $(Me_3CCH_2)_2Cd[Me_2N(CH_2)_2NMe_2]$ (P. O'Brien, M.B. Hursthouse, M. Motevalli, J.R. Walsh and A.C. Jones), 1

Low-temperature organometallic synthesis of crystalline and glassy ternary semiconductors $M^{II}M^{IV}P_2$ where M^{II} = Zn and Cd, and M^{IV} = Ge and Sn (S.C. Goel, W.E. Buhro, N.L. Adolphi and M.S. Conradi), 9

Synthesis and characterization of sterically encumbered Li, Na, and K aryl tellurolates, and some Pt(II), Ir(I), and Cd(II) derivatives (Ph.J. Bonasia and J. Arnold), 147

Chalcogenides

The use of phosphine chalcogenides in the preparation of cobalt chalcogenides (S.M. Stuczynski, Y.-U. Kwon and M.L. Steigerwald), 167

Cobalt

Formation of a high surface area, regular porous solid from the cluster of clusters, $Zn^{II}_4O[(CO)_9Co_3CCO_2]_6$ (W. Cen, B. Ladna, T.P. Fehlner, A.E. Miller and D. Yue), 19

Study of CoGa deposition from the single source precursor $(CO)_4CoGaCl_2$ (THF) (F. Maury, L. Brandt and H.D. Kaesz), 159

The use of phosphine chalcogenides in the preparation of cobalt chalcogenides (S.M. Stuczynski, Y.-U. Kwon and M.L. Steigerwald), 167

Copper

Chemistry of copper(I) β-diketonate complexes. VI. Synthesis, characterization and chemical vapor deposition of 2,2-dimethyl-6,6,7,7,8,8,8-heptafluoro-3,5-octanedione (fod), copper(I)L complexes and the solid state structure of $(fod)Cu(PMe_3)$ (K.M. Chi, T.S. Corbitt, M.J. Hampden-Smith, T.T. Kodas and E.N. Duesler), 181

A comparison of heterometallic alkoxide molecules containing copper(I) or copper(II) and zirconium (B.A. Vaartstra, J.A. Samuels, E.H. Barash, J.D. Martin, W.E. Streib, C. Gasser and K.G. Caulton), 191

Gallium

Tertiary phosphine adducts of alane and gallane (F.M. Elms, M.G. Gardiner, G.A. Koutsantonis, C.L. Raston, J.L. Atwood and K.D. Robinson), 45

Synthesis, characterization, and reactivity of new alkylgallium acetylides (K.E. Lee and K.T. Higa), 53

Synthesis and characterization of bridged dimeric and trimeric Group 13/15 complexes containing primary phosphido $[(^tBu)PH]^-$ and arsenido $[(^tBu)AsH]^-$ units (D.A. Atwood, A.H. Cowley, P.R. Harris, R.A. Jones, S.U. Koschmieder and C.M. Nunn), 61

Gallium and indium compounds containing three different substituents. Crystal and molecular structure of $[(Me_3CCH_2)ClGaPPh_2]_3$ (O.T. Beachley, Jr., J.D. Maloney and R.D. Rogers), 69

Study of CoGa deposition from the single source precursor $(CO)_4CoGaCl_2$ (THF) (F. Maury, L. Brandt and H.D. Kaesz), 159

Germanium

Low-temperature organometallic synthesis of crystalline and glassy ternary semiconductors $M^{II}M^{IV}P_2$ where M^{II} = Zn and Cd, and M^{IV} = Ge and Sn (S.C. Goel, W.E. Buhro, N.L. Adolphi and M.S. Conradi), 9

Gold

Monomeric to polymeric gold(I) complexes from bifunctional ligands $R_2PC{\equiv}CH$ (G. Jia, R.J. Puddephatt and J.J. Vittal), 211

Indium

Gallium and indium compounds containing three different substituents. Crystal and molecular structure of $[(Me_3CCH_2)ClGaPPh_2]_3$ (O.T. Beachley, Jr., J.D. Maloney and R.D. Rogers), 69

Raman spectroscopic studies of gas phase Me_3In, Et_3In and $EtMe_2In$ (Z.S. Huang, C. Park and T.J. Anderson), 77

Synthesis, isolation, and characterization of dimeric compounds containing two different exocyclic ligands on the Group 13 center. X-Ray crystal structures of $[R(Me_3SiCH_2)InE(SiMe_3)_2]_2$ (R = Ph, E = As; R = Me, E = As, P; R = Cl, E = P) (R.L. Wells, A.T. McPhail, L.J. Jones III and M.F. Self), 85

Indium tert-butylthiolates as single source precursors for indium sulfide thin films: is molecular design enough? (A.N. MacInnes, M.B. Power, A.F. Hepp and A.R. Barron), 95

An indium-phosphorus heterocubane as a new type of indium phosphide precursor (D.A. Atwood, A.H. Cowley, R.A. Jones and M.A. Mardones), C1

Iridium

Synthesis and characterization of sterically encumbered Li, Na, and K aryl tellurolates, and some Pt(II), Ir(I), and Cd(II) derivatives (Ph.J. Bonasia and J. Arnold), 147

Iron

Synthesis and second-order nonlinear optical properties of three coordinate organoboranes with diphenylphosphino and ferrocenyl groups as electron donors: crystal and molecular structures of (E)-D–CH=CH–B(mes)$_2$ and D–C≡C–B(mes)$_2$ [D = $P(C_6H_5)_2$, $(\eta\text{-}C_5H_5)Fe(\eta\text{-}C_5H_4)$; mes = 2,4,6-$(CH_3)_3C_6H_2$] (Z. Yuan, N.J. Taylor, Y. Sun, T.B. Marder, I.D. Williams and L.-T. Cheng), 27

Lithium

The systems $LiAlH_4/NH_4X$ and N_2H_5Cl as precursor sources for AlN (J.F. Janik and R.T. Paine), 39

Metallocenes

Synthesis and second-order nonlinear optical properties of three coordinate organoboranes with diphenylphosphino and ferrocenyl groups as electron donors: crystal and molecular structures of (E)-D–CH=CH–B(mes)$_2$ and D–C≡C–B(mes)$_2$ [D = $P(C_6H_5)_2$, $(\eta\text{-}C_5H_5)Fe(\eta\text{-}C_5H_4)$; mes = 2,4,6-$(CH_3)_3C_6H_2$] (Z. Yuan, N.J. Taylor, Y. Sun, T.B. Marder, I.D. Williams and L.-T. Cheng), 27

Phosphorus

Tertiary phosphine adducts of alane and gallane (F.M. Elms, M.G. Gardiner, G.A. Koutsantonis, C.L. Raston, J.L. Atwood and K.D. Robinson), 45

Synthesis and characterization of bridged dimeric and trimeric Group 13/15 complexes containing primary phosphido $[(^tBu)PH]^-$ and arsenido $[(^tBu)AsH]^-$ units (D.A. Atwood, A.H. Cowley, P.R. Harris, R.A. Jones, S.U. Koschmieder and C.M. Nunn), 61

Synthesis, isolation, and characterization of dimeric compounds containing two different exocyclic ligands on the Group 13 center. X-Ray crystal structures of $[R(Me_3SiCH_2)InE(SiMe_3)_2]_2$ (R = Ph, E = As; R = Me, E = As, P; R = Cl, E = P) (R.L. Wells, A.T. McPhail, L.J. Jones III and M.F. Self), 85

The use of phosphine chalcogenides in the preparation of cobalt chalcogenides (S.M. Stuczynski, Y.-U. Kwon and M.L. Steigerwald), 167

An indium-phosphorus heterocubane as a new type of indium phosphide precursor (D.A. Atwood, A.H. Cowley, R.A. Jones and M.A. Mardones), C1

Monomeric to polymeric gold(I) complexes from bifunctional ligands $R_2PC{\equiv}CH$ (G. Jia, R.J. Puddephatt and J.J. Vittal), 211

Platinum

Synthesis and characterization of sterically encumbered Li, Na, and K aryl tellurolates, and some Pt(II), Ir(I), and Cd(II) derivatives (Ph.J. Bonasia and J. Arnold), 147

Rhodium

Studies of the thermal and photochemical lability of olefin complexes of rhodium(I) to form Rh and Rh_2O_3 (Z. Duan, M.J. Hampden-Smith and A.P. Sylwester), 173

Selenium

The use of phosphine chalcogenides in the preparation of cobalt chalcogenides (S.M. Stuczynski, Y.-U. Kwon and M.L. Steigerwald), 167

Silicon

Synthesis, isolation, and characterization of dimeric compounds containing two different exocyclic ligands on the Group 13 center. X-Ray crystal structures of $[R(Me_3SiCH_2)InE(SiMe_3)_2]_2$ (R = Ph, E = As; R = Me, E = As, P; R = Cl, E = P) (R.L. Wells, A.T. McPhail, L.J. Jones III and M.F. Self), 85

Measurement of surface tension for polysilanes (T. Fujisaka, R. West and C. Murray), 105

Pyrolysis of poly[(silylene)diacetylenes]: direct evidence between their morphology and thermal behavior (R. Corriu, Ph. Gerbier, C. Guérin, B. Henner and R. Fourcade), 111

Silver

Crystal structure of $[CF_3CF{=}C(CF_3)Ag]_4$ and its use as a chemical vapor deposition precursor for silver films (P.M. Jeffries, S.R. Wilson and G.S. Girolami), 203

Sulphur

Indium tert-butylthiolates as single source precursors for indium sulfide thin films: is molecular design enough? (A.N. MacInnes, M.B. Power, A.F. Hepp and A.R. Barron), 95

The use of phosphine chalcogenides in the preparation of cobalt chalcogenides (S.M. Stuczynski, Y.-U. Kwon and M.L. Steigerwald), 167

Tellurium

Evidence for a free radical mechanism in the decomposition of bis(but-2-enyl)tellurium (J. Stevenson, W. Bell, J. Ferry, D.J. Cole-Hamilton and J.E. Hails), 141

The use of phosphine chalcogenides in the preparation of cobalt chalcogenides (S.M. Stuczynski, Y.-U. Kwon and M.L. Steigerwald), 167

Tin

Low-temperature organometallic synthesis of crystalline and glassy ternary semiconductors $M^{II}M^{IV}P_2$ where M^{II} = Zn and Cd, and M^{IV} = Ge and Sn (S.C. Goel, W.E. Buhro, N.L. Adolphi and M.S. Conradi), 9

Zinc

Structural studies of some Group 12 metal alkyl adducts: the X-ray crystal structures of $Me_2Zn[Me_2N(CH_2)_2NMe_2]$, $Me_2Cd[Me_2N(CH_2)_2NMe_2]$, $(Me_3CCH_2)_2Zn[Me_2N(CH_2)_2NMe_2]$ and $(Me_3CCH_2)_2Cd[Me_2N(CH_2)_2NMe_2]$ (P. O'Brien, M.B. Hursthouse, M. Motevalli, J.R. Walsh and A.C. Jones), 1

Low-temperature organometallic synthesis of crystalline and glassy ternary semiconductors $M^{II}M^{IV}P_2$ where M^{II} = Zn and Cd, and M^{IV} = Ge and Sn (S.C. Goel, W.E. Buhro, N.L. Adolphi and M.S. Conradi), 9

Formation of a high surface area, regular porous solid from the cluster of clusters, $Zn_4^{II}O[(CO)_9Co_3CCO_2]_6$ (W. Cen, B. Ladna, T.P. Fehlner, A.E. Miller and D. Yue), 19

Zirconium

A comparison of heterometallic alkoxide molecules containing copper(I) or copper(II) and zirconium (B.A. Vaartstra, J.A. Samuels, E.H. Barash, J.D. Martin, W.E. Streib, C. Gasser and K.G. Caulton), 191